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ASSIGNMENT BOOKLET 4A

MAT1225 Mathematics 14
Module 4: Section 1 Assignment

FOR STUDENT USE ONLY

Date Assignment Submitted:

Time Spent on Assignment:

(If label is missing or incorrect)

Student File Number:

Module Number:

FOR OFFICE USE ONLY

Assigned Teacher: _____

Assignment Grading: _____

Graded by: _____

Date Assignment Received: _____

Student's Questions and Comments

Apply Module Label Here

Name	Address	Postal Code
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Please verify that preprinted label is for
correct course and module.

Teacher's Comments

Teacher

INSTRUCTIONS FOR SUBMITTING THIS DISTANCE LEARNING ASSIGNMENT BOOKLET

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- Are all the assignments completed? If not, explain why.
- Has your work been reread to ensure accuracy in spelling and details?
- Is the booklet cover filled out and the correct module label attached?

MAILING

1. Postage Regulations

Do **not** enclose letters with your assignments or Assignment Booklets.

Send all letters in a separate envelope.

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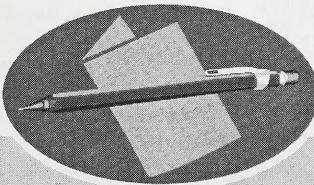
It may be possible to e-mail your completed assignments to the school with which you are registered. Contact your teacher for the appropriate e-mail address.

Mathematics 14

Module 4

Measurement

ASSIGNMENT BOOKLET 4A



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Summary

	Total Possible Marks	Your Mark
Section 1 Assignment	60	
	60	

Teacher's Comments

Mathematics 14
Module 4: Measurement
Assignment Booklet 4A
Section 1 Assignment
Learning Technologies Branch
ISBN 0-7741-2547-0

The Learning Technologies Branch acknowledges with appreciation the Alberta Distance Learning Centre and Pembina Hills Regional Division No. 7 for their review of this Assignment Booklet.

This document is intended for	
Students	✓
Teachers	✓
Administrators	
Home Instructors	
General Public	
Other	



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- Learning Technologies Branch, <http://www.learning.gov.ab.ca/ltb>
- Learning Resources Centre, <http://www.lrc.learning.gov.ab.ca>

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ASSIGNMENT BOOKLET 4A MATHEMATICS 14: MODULE 4 SECTION 1 ASSIGNMENT

Your mark for this module will be determined in part by how well you do your assignments.

This Assignment Booklet is worth 60 marks out of the total 100 marks for the assignments in Module 4. The value of each assignment and each question is stated in the left margin.

Work slowly and carefully. If you have difficulty, go back and review the appropriate lessons.

Be sure to proofread your answers carefully.

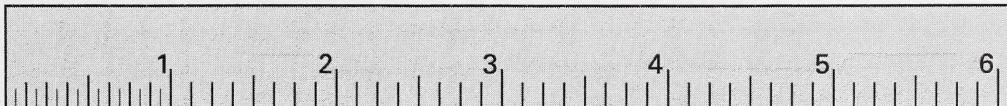
60

Section 1 Assignment: Measurement

Read all parts of your assignment carefully and record your answers in the appropriate places. Clearly show how you arrived at your answers by showing your work.

Use the conversion factors on page 204 of your textbook when necessary.

③ 1. Use the ruler shown to explain how you could evaluate $1\frac{3}{4}'' - \frac{5}{8}''$.



②

2. A window is 54 inches in width. Express this dimension in feet and inches.



Turn to Section 1: Lesson 2 in the Module 4 Student Module Booklet.

3. The height of a doorway is 6'10".

(2) a. What is its height in inches?

b. What is its height in metres? Round your answer to the nearest hundredth.

(2) 4. A bookcase that is 2'6" wide is placed next to a desk that is 3'10" wide. What is the total length in feet and inches?

(2) 5. A closet that is 4'2" wide is built in one corner of a bedroom wall. If the wall measures 9'6", how much wall space is there beside the closet?

④ 6. Convert each of the following measures.

- 500 m to km _____
- 6.45 m to mm _____
- 3500 cm to m _____
- 0.005 km to cm _____

7. From John's home to the American border is 450 km. From the border to John's cousin Emma's home is 320 mi.

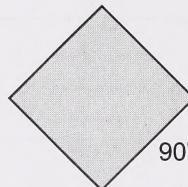
- What is the distance from John's home to Emma's home in miles? Round your answer to the nearest mile.

④ b. If John drives to Emma's and averages 90 km/h, how long will the trip take? Round your answer to the nearest hour.



Turn to Section 1: Lesson 3 in the Module 4 Student Module Booklet.

8. A baseball diamond is in the shape of a square measuring 90 ft on a side.



a. What is the perimeter in yards?

(3)

b. What is the perimeter in metres? Round your answer to the nearest metre.

(3)



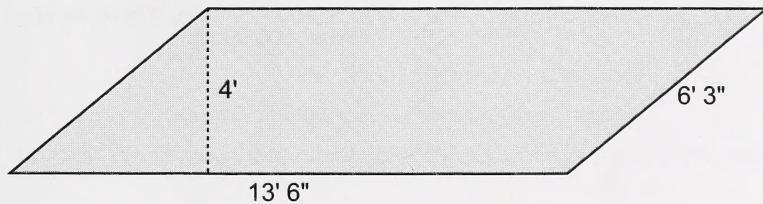
Turn to Section 1: Lesson 4 in the Module 4 Student Module Booklet.

② 9. a. What is the area in square feet of the baseball diamond in question 8?

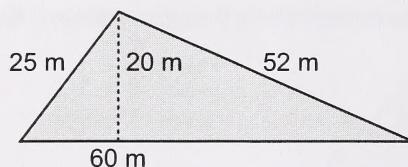
③ b. What is the area in hectares? Round your answer to the nearest hundredth.

10. Determine the perimeter and area of each figure.

⑥ a.



(4)

b.

Turn to Section 1: Lesson 5 in the Module 4 Student Module Booklet.

(3)

11. A rectangular planter is 2 ft wide and 3 ft long. It is to be filled to a depth of 8 inches.

a. What is the volume in cubic feet?

(3)

b. Soil is sold in 25-L bags. How many bags would you have to buy to fill the planter?



Turn to Section 1: Lesson 6 in the Module 4 Student Module Booklet.

12. A rectangular fish tank is 30 cm long, 20 cm wide, and 15 cm high.

(3)

a. How many litres of water are needed to fill the tank?

(1)

b. What is the approximate mass, in kilograms, of the water in the tank?

(3) c. The empty tank weighs 5 lb. What is the total weight of the tank when filled with water? Round your answer to the nearest pound.

(2) 13. A loaded trailer weights 3500 lb. What is its mass in kilograms? Round your answer to the nearest kilogram.



Turn to Section 1: Conclusion in the Module 4 Student Module Booklet.

A.L.J 2003-341

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C.J
V.4 booklet b

ASSIGNMENT BOOKLET 4B

MAT1225 Mathematics 14

Module 4: Section 2 Assignment and Final Module Assignment

FOR STUDENT USE ONLY		FOR OFFICE USE ONLY
Date Assignment Submitted:	(If label is missing or incorrect)	Assigned Teacher: _____
Time Spent on Assignment:	Student File Number: _____	Assignment Grading: _____
	Module Number: _____	Graded by: _____

Student's Questions and Comments	Apply Module Label Here			
	<table border="1"><tr><td>Name</td><td>Address</td><td>Postal Code</td></tr></table> <p>Please verify that preprinted label is for correct course and module.</p>	Name	Address	Postal Code
Name	Address	Postal Code		

Teacher's Comments
<hr/> <p style="text-align: right;">Teacher</p>

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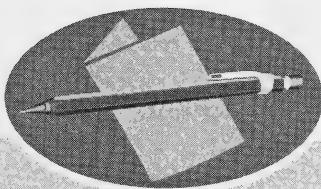
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Mathematics 14

Module 4

Measurement

ASSIGNMENT BOOKLET 4B



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FOR TEACHER'S USE ONLY

Summary

	Total Possible Marks	Your Mark
Section 2 Assignment	20	
Final Module Assignment	20	
	40	

Teacher's Comments

Mathematics 14
Module 4: Measurement
Assignment Booklet 4B
Section 2 Assignment and Final Module Assignment
Learning Technologies Branch
ISBN 0-7741-2548-9

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**ASSIGNMENT BOOKLET 4B
MATHEMATICS 14: MODULE 4
SECTION 2 ASSIGNMENT AND FINAL MODULE ASSIGNMENT**

Your mark for this module will be determined in part by how well you do your assignments.

This Assignment Booklet is worth 40 marks out of the total 100 marks for the assignments in Module 4. The value of each assignment and each question is stated in the left margin.

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20

Section 2 Assignment: Central Tendencies

Read all parts of your assignment carefully and record your answers in the appropriate places. Clearly show you arrived at your answers by showing your work.

1. Marianne plays on her community basketball team. She has played 8 games this season. The points she scored in these games were 12, 8, 32, 13, 11, 13, 9, and 18.

(2)

a. What is the mean of the points she scored?

(2)

b. Calculate the median.

(1)

c. What is the mode?

(1)

d. What is the range?



Turn to Section 2: Lesson 2 in the Module 4 Student Module Booklet.

(3)

2. In question 1, which measure best reflects Marianne's game performance? Explain your answer.

(3)

3. On a chemistry test, the class marks were 45, 54, 49, 48, 99, 48, and 42.

a. Which is higher, the mean or the median, and by how much?

(2)

b. Which better represents the class performance on the test? Explain your answer.



Turn to Section 2: Lesson 3 in the Module 4 Student Module Booklet.

(3)

4. a. Calculate the plus/minus number for each of the following hockey players.

Player	Games Played	Goals For	Goals Against	+/-
Smyth	5	7	4	
Sapp	10	16	9	
Amisk	6	9	2	
Khabarov	9	7	0	
Narayanan	9	17	14	
Fortier	2	6	7	

(3)

b. The plus/minus statistic alone may not tell you who the most valuable player is. What additional calculation might you do so that you could rank the players? Use your suggestion and determine the most valuable player.



Turn to Section 2: Conclusion in the Module 4 Student Module Booklet.

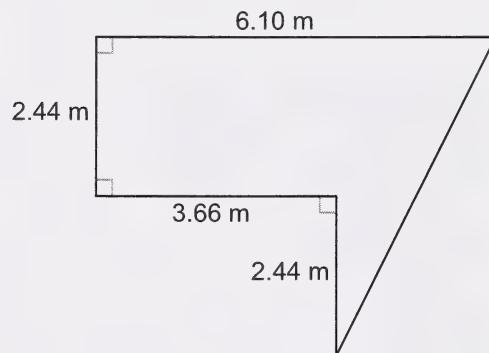
20

Final Module Assignment

Read all parts of your assignment carefully and record your answers in the appropriate places. Clearly show how you arrived at your answers by showing your work.

Use the conversion factors on page 204 of your textbook when necessary.

1. John is going to help his mother tile the following portion of their basement floor.



4

- a. Determine the area of the floor to be tiled. Do not round your answer.

④ b. They plan to use tiles that measure 1 ft by 1 ft. Assuming there is little or no waste, how many tiles will they have to buy?

2. Convert each of the following measures.

② a. 2500 cm^3 to litres _____

② b. 6.2 t to kilograms _____

② c. 64 m^3 to litres _____

② d. 500 mg to ounces _____

④ 3. John and four of his colleagues have a mean annual income of \$63 000. Not including John, his colleagues have a mean annual income of \$62 500. Calculate John's annual income.

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